Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

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General Information		
Name:	Olin Chemicals and Chlor Alkali, Inc., Doe Run Plant	
Address:	2450 Olin Road, P.O. Box 547, Brandenburg, KY 40108-0547	
Date application received:	12-11-96 2869/Organic Chemicals Manufacturing	
SIC/Source description:		
AFS(10-digit) Plant ID: EIS #:	21-163-0001 104-2700-0001	
Finds #:	KYD006396246	
Application log number:	E849	
Permit number:	V-97-051	
Application Type/Permit Activity		
[] Initial issuance	[] General permit	
Permit modification	[] Conditional major	
Administrative	[x] Title V	
Minor	[] Synthetic minor	
Significant	[] Operating	
[] Permit renewal	[] Construction/operating	
Compliance Summary [] Source is out of compliance [x] Compliance certification sign	[x] Compliance schedule included ned	
Applicable Requirements list		
[X] NSR [x] NSI		
[] PSD [x] NES	SHAPS [] Other	
Miscellaneous [] Acid rain source [X] Source subject to 112(r) [x] Source applied for federally [] Source provided terms for al [x] Source subject to a MACT s [] Source requested case-by-c [] Application proposes new co [x] Certified by responsible offic [x] Diagrams or drawings includ [x] Confidential business inform [] Pollution Prevention Measur [] Area is non-attainment (list p	Iternative operating scenarios standard ase 112(g) or (j) determination ontrol technology cial ded nation (CBI) submitted in application es	

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM	50.79	50.79
SO ₂	6.56	6.56
NOx	4674.83	4674.83
СО	593.80	593.80
VOC	994.58	994.58
LEAD	NA	NA
HAP ≥ 10 tpy (by CAS):		
75-21-8 / Ethylene Oxide	305.77	305.77
75-56-9 / Propylene Oxide	152.34	152.34
75-45-6 / R22	167.58	167.58
107 -13-1 / Acrylonitrile	15.56	15.56
1330-20-7 / Xylene	15.58	15.58

Source Process Description:

Olin Chemicals Corporation is a synthetic organic chemical manufacturing industry (SOCMI) falling under SIC Code Group 28. The primary operation at the Doe Run plant consists of the manufacturing of glycols, polyols, resins, urethane systems, flexible foams, adducts, and surfactants. The primary raw materials at the plant are ethylene and propylene oxides. The oxides are reacted with other compounds to produce the products listed. Chemical production is grouped into several areas: Light Hydrocarbon (LHC), Polychemicals, Poly Solv®, Propylene Glycol, Ethylene/Propylene Oxides, Polymer Polyol, ADI/TDI Adducts, 2A1 Surfactants), Microelectronics, Urethane Systems, and Flexible Foam.

The plant also includes several support activities such as Utilities, Pilot Plant, Waste Water Treatment, Storage Facilities, and Quality Control/Assurance Laboratories.

Emission and Operating Caps description:

- a. Emission and Operating Caps:
 - Please refer to the respective Production Areas listed on the permit for any emissions or operating limits.
- b. Early Reductions Emission Cap: NA
- c. Synthetic Minors:

Please refer to the permit for emissions units for which Olin has received synthetic minor permits

Operational Flexibility:

NΑ